

**S. W. A. N.**  
**A NEW**  
**ALMANACK**

For the year of our

**LORD GOD**

**1680.**

Being the Bisextile or Leap year,  
and from the Creation of the World  
at the Spring 5683 years compleat.

Wherein is shewed the principal Aspects of  
the Planets, with other Coelestial observa-  
tions, the beginning and ending of Cambridge  
Terms, with other things of note in the  
Univeisity.

Calculated properly for the famous  
Univeisity and Town of Cambridge, where  
the Pole elevated 52 Deg. and 17 min.  
above the Horizon.

*Dixit autem Deus, fiant Luminaria in Firmamen-  
to Caeli, & dividant Diem ac Noctem: & sint in  
Signa & tempora, & Dies, & Annos, Gen. 1. 14.*

**A. M. B. R. I. D. G. E.**  
Printed by *John Hayes*, Printer to the  
Univeisity. 1680.

37m 1080.

# A Table of the Terms with their Returns.

Hilary Term begins January 23, ends February 11.

Return days, or days of effoin.	Days of Exception	Returns Brevium.	Days of Appera.
Octab. Hilary. Jan. 20	Jan. 21	Jan. 22	Jan. 23
Quind. Hilary. Jan. 27	Jan. 28	Jan. 29	Jan. 29
Craft. Purif. Feb. 3	Feb. 4	Feb. 5	Feb. 6
Octab. Purif. Feb. 9	Feb. 10	Feb. 11	Feb. 12

Easter Term begins April 28, ends May 24.

Quind. Pasch. Apr. 16	April 17	April 18	Apr. 28
Tres Pasch. May 3	May 4	May 5	May 6
Menf. Pasch. May 10	May 11	May 12	May 13
Quinq. Pasch. May 17	May 18	May 19	May 19
Craft. Ascen. May 21	May 22	May 24	May 24

Trinity Term begins June 11, ends June 30.

Craft. Trin. June 7	June 8	June 9	June 10
Octab. Trin. June 14	June 15	June 16	June 17
Quind. Trin. June 21	June 22	June 23	June 25
Tres Trin. June 28	June 30	June 30	June 30

Michaelmas Term begins October 23, ends November 29.

Tres Mich. Octob. 30	Octob. 31	Octob. 22	Octob. 23
Menf. Mich. Octob. 27	Octob. 29	Octob. 29	Octob. 30
Craft. anim. Novem. 3	Novem. 4	Novemb. 6	Novemb. 6
Craft. Mart. Nov. 12	Nov. 13	Novemb. 15	Novem. 16
Octab. Mart. Nov. 18	Nov. 19	Novemb. 20	Novem. 22
Quind. Mart. Nov. 25	Nov. 26	Novemb. 27	Novem. 29

The

The Table of the Terms explained.

**F**irst you are to know that every Return hath a Basis or known day, from whence it takes its denomination.

Craftino is the morrow after the Basis, or day nominated, as Craftino Trinitatis is the morrow after Trinity Sunday, which is the Basis or day that gives the denomination: Octabis is 8 days after Inclusive; Quind. is 15 days after; Tres that day 3 weeks; Mensē that day month; and Quing. that day weeks.

Now every one of these Returns hath 4 several days whereof they consist, the first whereof hath a double signification; the one is the day of Return, and the other the day of Essoyn for the Defendant in a personal Action, or the Tenant in a reall Action, to be Essoyn'd: the second is the day of exceptions, for the Plaintiff or Defendant to lay an exception, if no Essoyn be cast that the Defendant shall not be Essoyn'd or Amerced: The third is Returna Brevium that is, the day whereon the Sheriff must return the Writ: And the fourth is the day of Appearance for Parties and Jurors in the Court of Common Pleas.

But when any of these days fall upon Ascension day, Midsummer day, All Saints-day, or the Feast of the Purification, or any other Saints day, or Sunday the next day serves for both; as if the Essoyn day fall upon Sunday, then Monday must serve for that, and for the day of Exception both, as you may find by the foregoing Table.

*A Rule to find the Epact which is the Age of the Moon*

*the 28 of February*

When the Golden number is 3, 6, 9, 12, 15, or 18

The Epact is the same.

But when the G. N. is 1

The Epact is 11 12 14 25 17 28 20 1 23 4 26 29

# A Table of Annuities and Reversions.

What 1 pound to be paid any num- ber of years hence, is worth in ready money at 6 per cent.				What 1 pound to continue any number of years under 31 is worth in ready mo- ney.				What 1 pound will amount to at any time under 31 years reckoning interest upon interest.			
lb.	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	0	18	10	2	1	1	2	2
2	17	9	2	1	16	8	0	1	2	5	2
3	16	9	2	3	13	5	2	1	3	9	3
4	15	10	0	3	9	3	2	1	5	3	0
5	14	11	1	4	4	3	0	1	6	9	0
6	14	1	1	4	18	4	1	1	8	4	2
7	13	2	2	5	11	7	3	1	10	0	3
8	12	6	2	6	4	2	1	1	11	10	2
9	11	10	0	6	16	0	1	1	13	9	2
10	11	2	0	7	7	2	1	1	15	9	3
11	10	6	2	7	17	8	3	1	17	11	2
12	9	11	1	8	17	8	0	2	0	3	0
13	9	4	3	8	17	0	2	2	2	7	3
14	8	10	0	9	5	1	3	2	5	2	2
15	8	4	0	9	14	3	0	2	7	11	1
16	7	10	2	10	2	1	2	2	10	9	2
17	7	5	0	10	9	6	2	2	12	10	2
18	7	9	0	11	16	6	3	3	17	1	0
19	6	7	1	11	3	2	0	3	0	6	0
20	6	2	2	11	9	4	0	3	4	1	2
21	5	10	2	11	15	1	1	3	7	11	0
22	5	6	2	12	0	10	0	3	10	1	0
23	5	2	3	12	6	0	3	3	12	1	0
24	4	11	3	12	14	0	0	3	14	1	0
25	4	7	2	12	15	8	0	3	15	1	0
26	4	4	1	13	0	0	3	3	16	1	0
27	4	1	3	13	4	2	3	3	17	1	0
28	3	11	0	13	8	1	2	3	18	1	0
29	3	9	1	13	11	9	3	3	19	1	0
30	3	5	3	13	15	3	2	3	20	1	0

By this Table you may readily find the increase of any other sum for such a number of years: for if you put 100 in such a place as 10 years will come to 5 times as much &c.



The Explanation of the foregoing Tables.

The first consists of 2 Columns, the second of one, and the third of one as you may see.

The first column on the left hand contains the number of years from 1 to 30, the second the value of one pound to be paid such a number of years within 1 and 30 standing right against the years you seek for, as for example, what is one pound to be paid 20 years hence worth in ready money look for 20 in the first column under the title of years and right against it in the second you will find 6 shill. 2 pence 3 farth. the value of one pound in ready money, thus you may do with any sum of money, as suppose 5<sup>l</sup> which 20 years hence is worth but 5 times 6 shill. 2 pence 3 farth. in ready money which is but 11 shill. 1 penny 3 farth. in ready money, and so for any other sum.

The second Table being but one column shews what one pound continuing such a term of years is worth in ready money, as for example, suppose 20 years, 1 pound at 20 years end is worth 11<sup>l</sup> 9 shill. 4 pence 3 farth. which you will find right against 20 years under his proper title in this column or Table, so you may do for any other sum, as suppose 5<sup>l</sup> which will be 5 times so much and therefore multiply by 5 or add the sum so many times together and you shall have the value of any yearly rent or revenue to continue such a term of years as is contained in the Table.

The third Table being but one Column shews what 1<sup>l</sup> will amount to at any time under 21 years, as suppose 20 years look for 20 years under the title of years and right against it in this Table you will find 3<sup>l</sup> 4 shill. 3<sup>d</sup> so much will 1<sup>l</sup> amount to in 20 years reckoning interest upon interest, thus knowing what 1<sup>l</sup> will amount to in so many years you may easily know what 5<sup>l</sup> 10<sup>l</sup> 20<sup>l</sup> or any sum whatsoever by saying 5 times so much or 10 times or the like.

Of Rebate.

Many making no difference between interest and rebate I think it convenient to advertise my Reader concerning it, for rebate then this is the rule, look for the interest of the sum whose rebate you desire and add it to the principal, as suppose the rebate of 100<sup>l</sup> for a year add the interest of 100<sup>l</sup> for a year to 100<sup>l</sup> the sum will be 106<sup>l</sup> which must be the first term in the Rule of three thus as 106 to 100 so 100 to 100 rebated so that you must rebate 5<sup>l</sup> 13 shill. and some more out of the 100, thus may you do for any other sum,

A 3

The

The vulgar Notes and Moveable Feasts in  
both Accounts for this Year 1680.

Julian or  
English.

Gregorian or  
Foreign.

	9	The Golden Number	9
	9	The Cycle of the Sun	9
	9	The Epact	22
	9	The Dominical Letters	G F
Feb.	22	Shrove Sunday	March 3
April	11	Easter-day	April 21
May	10	Ascension day	May 30
May	30	Whitsunday	June 9
June	6	Trinity Sunday	June 16
Novemb.	28	Advent Sunday	Decemb. 1

Some things in the following Alm. explained.

The 13 day of January among the Aspects of the Planets you will find  $\text{p}$  Apogizon, that is, the Moon is then at her greatest distance from the earth: the 16 day you find  $\text{p}$  Perigizon, that is, the  $\text{p}$  is then nearest the earth: when you find  $\text{p}$  cum  $\odot$ , the meaning is, the Moon is then with the Dragons-Head; when  $\text{p}$  cum  $\text{p}$ , the  $\text{p}$  is then with the Dragons-Tail, which are nothing else but the Intersections of the Moons Orb with the Ecliptick, when you find Stat. ad Direct. it sheweth that Planet is Stationary & becomes Direct, but if you find Stat. ad Ret. that Planet is Stationary, and becomes Retrograde: when you find any of the Planets Oriental, the meaning is, they are then morn. Stars: if Occidental, they are evening Stars: when you find  $\odot$  elongate Max.  $\odot$ , or elong. M.  $\odot$ , the meaning is, Mercury is then at his greatest distance from the Sun: a. stands for ante or before noon, p. for post, or afternoon, n. or . for noon,

The

The Scarlet days in the University of Cambridge, are as followeth.

All Saints, Christmas, Easter, Ascension, Whitsunday,  
Trinity Sunday, Conventment, and the 29 of May;  
At the two Fairs proclaiming in June and September,  
The Feast of Saint Michael, and the 5 of November.

To Funerals, Clerums and Supplications;  
All Doctors go as to Congregations;

That is in their Robes.

Marriage comes in on the 13 day of January, and at  
Septuagesima Sunday it is out again until Lowsun-  
day; at which time it comes in again, & goes not out till  
Rogation Sunday: thence it is forbidden until Trinity-  
Sunday: from whence it is unforbidden till Advent-  
Sunday: but then it goes out, and comes not in again  
till the 13 day of January next following.

The Names, and Characters of the 12 Signs, with the  
parts of mans Body which they are said to govern.

♈ Aries head and Face	♎ Libra Reins & Loyns
♉ Taurus neck and Throat	♏ Scorpio Secret members
♊ Gemini Arms & Shoul.	♐ Sagittarius the Thighs
♋ Cancer Breast & Stom.	♑ Capricornus the Knees
♌ Leo Heart and Back	♒ Aquarius the Legs
♍ Virgo Bowels and Belly	♓ Pisces the Feet

# January hath xxxi days.

Full moon 5 day, 7 min. past 10 at night

First quarter 13 day, 4 min. past 7 at night

New moon 21 day, at 1 afternoon

First quarter 28 day, 21 min. past 8 in the morning.

1	a	Circumcision	21	19	23	8	57	8	43	56
2	b	Octab. Steph.	22	20	8	II	4	8	33	57
3	c	Oct. John	23	21	22	10	8		23	58
4	d	2 sun. aft. Chr.	24	22	6	5	9	8	04	0
5	e	Shimeon	25	23	19	55	7		59	1
6	t	Epiphany	26	24	3	Ω	26	7	58	2
7	B	Julian	27	25	16	35	7		57	3
8	a	Lucian	28	26	20	28	7		55	4
9	b	Marcelline	29	28	11	m	59	7	54	5
10	c	Sanen Aquar.	0	29	24	13	7		52	6
11	d	1 aft. Epiph.	1	31	6	13	7		51	7
12	e	Archieb.	2	32	18	17			50	8
13	f	Hillary Bish.	3	33	29	50	7		48	9
14	g	Fel p	4	34	11	m	36	7	47	10
15	a	Mauritius	5	35	23	35	7		46	11
16	b	Marcellus	6	36	5	7	37	7	45	12
17	c	Anthony	7	37	18	17			44	13
18	d	2 aft. Epiph.	8	38	0	v	41	7	42	14
19	e	woolstan	9	39	13	20	7		40	15
20	f	Octab. Hill.	10	40	27	18	7		38	16
21	g	Agnes Virg.	11	41	11	8	7		36	17
22	a	Vincent	12	42	25	v	12	7	34	18
23	b	Term begins	13	43	9	X	27	7	32	19
24	c	Timothy b.	14	44	23	59	7		30	20
25	d	Conv. S. Paul	15	45	8	Y	12	7	28	21
26	e	Poly carp	16	46	22	35	7		26	22
27	f	St Quint. Hil.	17	47	6	42	7		24	23
28	g	Agnes App.	18	48	20	46	7		22	24
29	a	Gildas Abb.	19	49	4	II	42	7	20	25
30	b	K. C. I. Mart.	20	48	18	30	7		18	26
31	c	Epiphany	21	49	2	5	10	7	16	27

Cold *Eurus* now doth on dame *Tellus* lease,  
 And with cold ice her naked back doth glase,  
 Who in a cold white mantle doth appear,  
 But this cold mantle *Boreas* doth tear:  
 To comfort her brave *Sol* again doth wheel,  
 Yet *Hyems* force she must expect to feel.

1 11  
 2 12 ✕ ♀ ♀ 4 p.  
 3 13 Col: & cloudy  
 4 14 ☐ ♀ ♂ 3 p.  
 5 15 with snow  
 6 16 cold abated.  
 7 17 ♂ ♂ ♀ 5 p.  
 8 18  
 9 19 ☐ ♀ ♀ 8. 2.  
 10 20 ♂ ♀ ♀ 9 2.  
 11 21 ☐ ☉ ♀ 11 p.  
 12 22 ☉ cum ☉  
 13 23 ☾ Apogeeon.  
 14 24 Warm for the  
 15 25 season with  
 16 26 rain.  
 17 27 Variable and  
 18 28 unbalant.  
 19 29 \* h ♀ 9 p.  
 20 30  
 21 31  
 22 1 ♀ Elong. a ☉  
 23 2 ♀ Star. ad dj.  
 24 3  
 25 4 ☉ cum ☉  
 26 5 ☉ Perigeeon  
 27 6  
 28 7 ♂ h ♀ 9 p.  
 29 8 Col: rain or  
 30 9 Δ ♀ ♀ 0.  
 31 10 snow.

# January 1680.

The 4 day at 6 in the morning  
 h and d will be in conjunction  
 which will be a little above an  
 hour before her setting.

Cambridge Term begins the 13  
 day.

## February Roman account.

On the 27 day at 6 at night  
 ♀ may be seen about 6 deg. di-  
 stant from ☾ on the East side of  
 her body.

# February hath xxix days.

Full moon 4 day, 48 min. past 1 afternoon

Last quarter 12 day, 13 min. past 5 afternoon

New moon 20 day, 53 min. past 12 in the morning

First quarter 26 day, 40 min. past 4 afternoon.

M.D.I.	W.D.I.	Festival days with terms.	Suns place	Moons place.	Sun rise	Sun set
1	I	4 aft. Epiph.	22	50	15 3 41	7 14 4
2	II	Purification.	23	51	29 17	12 4 48
3	III	Craft. Purif.	24	51	12 8 7	10 4 50
4	IV	Gilbert	25	51	25 17	8 4 52
5	V	Agatha M.	26	52	7 37 7	6 4 54
6	VI	Dorothea M.	27	53	19 59 7	4 4 56
7	VII	Rumwal. B.	28	53	2 9 7	2 4 58
8	VIII	Sepruagefima	29	54	14 9 7	0 5 0
9	IX	Sun in Pilces	0	54	26 1 6	59 5 1
10	X	Scholast. O.P.	1	55	7 48 6	37 5 3
11	XI	Bother	2	55	19 37 6	35 5 5
12	II	Term ends	3	55	1 31 6	34 5 6
13	III	Agabus	4	56	13 30 6	32 5 8
14	IV	Valentine	5	56	25 57 6	30 5 10
15	V	Sexagefima	6	56	0 39 6	28 5 12
16	VI	Juliana	7	57	21 46 6	26 5 14
17	VII	Constant	8	57	5 19 6	24 5 16
18	VIII	Concordia	9	57	19 16 6	22 5 18
19	IX	Rebina	10	57	3 36 6	20 5 20
20	X	Mildred vir.	11	57	18 17 6	38 5 22
21	XI	Timber	12	57	3 16 6	36 5 24
22	II	Quinquagesi.	13	57	17 52 6	34 5 26
23	III	Polycarp	14	57	2 36 6	32 5 28
24	IV	Shrovet. fast	15	57	17 9 6	30 5 30
25	V	S. Matt.	16	57	1 25 6	28 5 32
26	VI	Gregorian	17	57	15 25 6	26 5 34
27	VII	Fortunatus	18	57	29 24 6	24 5 36
28	VIII	Oswald Bish.	19	57	13 33 6	22 5 38
29	IX	Sun. in Lent	20	56	25 45 6	20 5 40



*Sat* now and *Mars* joyn their seeds together,  
 Which may produce more warm & pleasant weather.  
 Anon flaming *Mars* and cold *Saturn* trines.  
 A churlish season then expect with winds.  
*Mercury* and *Saturn* in trine behold,  
 The sharper air expect and chilling cold.

En. 20	Ro. 20	Planets aspects
1	11	The month
2	12	begins mildly
3	13	♂♂☉ 5 p.
4	14	for some days.
5	15	☿ along. Max.
6	16	
7	17	☿ Apogzon
8	18	☿♂
9	19	☿♂☿ 12 p.
10	20	☿♂☉.
11	21	Windy with
12	22	☿♂♂ 5 a.
13	23	hail or snow.
14	24	*☿☉ 13 p.
15	25	Warm for the
16	26	season.
17	27	
18	28	*☿♂ 7 p.
19	29	frost now
20	1	though not
21	2	☿☿
22	3	☿ Star. ad Di.
23	4	☿ Perigzon
24	5	continuing.
25	6	
26	7	
27	8	☿♂☿ 13 p.
28	9	Sharp cold
29	10	weather.

The Inclination of the air.

February 1680.

The 5 day ☿ at his greatest  
 Oriental distance from ☉ may  
 be seen to rise about an hour be-  
 fore ☉. ♀ may be seen likewise  
 at a little distance from ☿ West-  
 ward, they are both morning  
 Stars all this month.

March Roman account.

Commencement for Bachelours  
 in Arts the 26 day.

# March hath xxxi. days.

Full moon 8 day, 56 min. past 5 in the morning  
 Last quarter 13 day, 24 min. past 11 morning  
 New moon 20 day, 44 min. past 10 in the morning  
 First quarter 27 day, 14 min. past 2 in the morning.

1	D	David Bish.	21	56	8	Ω	43	6	18	5	43
2	E	Chad Bish.	22	56	21		26	6	16	5	44
3	F	Ember week	23	56	3	⏚	57	6	14	5	46
4	G	Desan	24	55	16		18	6	12	5	48
5	A	Eusebius	25	55	28		50	6	10	5	50
6	H	Fredrick	26	54	10	⏚	32	6	8	5	52
7	C	2 Sun. in lent.	27	54	22		27	6	6	5	54
8	D	Marcellian	28	53	4	m	25	6	4	5	56
9	E	40 Ma. ry. s	29	53	16		8	6	2	5	58
10	F	Sun in Aries	0	52	27	⏚	50	6	0	5	60
11	G	Gregory	1	52	9	⏚	55	5	58	5	2
12	A	Didon	2	50	22		15	5	56	5	4
13	H	Wigan	3	50	4	⏚	7	5	54	5	6
14	C	3 Sun. in lent.	4	49	16		59	5	52	5	8
15	D	Longine	5	48	29		58	5	50	6	10
16	E	Brede Ab.	6	47	13	⏚	25	5	48	6	12
17	F	Patrick	7	46	27		20	5	46	6	14
18	G	Edward K.	8	45	11	⏚	42	5	44	6	16
19	A	Joseph	9	45	26		27	5	42	6	18
20	H	Mupert.	10	44	11	⏚	29	5	40	6	20
21	C	Midlent Sund.	11	43	26		38	5	38	6	22
22	D	Ephrod: Aug	12	42	11	⏚	46	5	36	6	24
23	E	Erevoze	13	41	26		41	5	34	6	26
24	F	Qui: in Fast	14	40	11	⏚	16	5	32	6	28
25	G	Annunciation	15	39	25		30	5	30	6	30
26	A	Cestulus	16	38	9	⏚	16	5	28	6	32
27	H	Archibald	17	37	22		41	5	26	6	34
28	C	5 Sun. in lent	18	36	5	Ω	44	5	24	6	36
29	D	Enbach	19	34	18		28	5	22	6	38
30	E	Patrone	20	33	0	⏚	56	5	20	6	40
31	F	Enbe	21	32	13		15	5	18	6	42

Brave Phœbus now to th' bicornè Sign arrives,  
 Old Hyem's forces there to conquer strives;  
 Who furiously now may rage and tear,  
 Brave Sol will vanquish, and the Boys will wear;  
 Who in triumph rides, & our Zenith tending,  
 A reviving beam to all Creatures sending.

1	11	
2	12	☐ ♀ 8 a.
3	13	* ♀ 16 p.
4	14	Windy rainy
5	15	weather.
6	16	☾ ☉
7	17	☾ Apogæon
8	18	
9	19	cloudy mixt
10	20	with rain.
11	21	☐ ☉ 7 p.
12	22	♂ ☉ 4 a.
13	23	
14	24	
15	25	☐ ☉ 12.
16	26	
17	27	Windy and
18	28	clear weather
19	29	♂ ☉ 14 p.
20	30	High winds.
21	31	☐ ☉ 15 p.
22	1	☐ ☉ 10 a.
23	2	☾ Perigæon
24	3	Cold abated
25	4	but tempe-
26	5	stuous.
27	6	
28	7	
29	8	Variable
30	9	weather.
31	10	* ☉ 6 a.

March, 1680.

On the 19 day ☉ will be in  
 conjunction with ☾ and from  
 hence may be seen to rise a little  
 before ☉. ☉ rises about an hour  
 and half before ☉ the most part  
 of this month.

April Roman account.

The 25 day is the day for the  
 Easter Act, but being Annunciation  
 it may be deferred.

# April hath xxx days.

Full moon 3 day, 29 min. past 11 at night  
 Last quarter 12 day, 40 min. past 12 in the morning  
 New moon 18 day, 56 min. past 8 at night  
 First quarter 25 day, 10 min. past 1 afternoon.

1	G	Conv. M. Mag.	22	30	25	m	20	15	16	6	44
2	a	Francis C.	23	29	7	≈	20	5	14	6	46
3	b	Richard bis.	24	27	19		15	5	12	6	48
4	C	Palm Sunday	25	26	1	m	7	5	10	6	50
5	d	Vincent	26	24	12		59	5	8	6	52
6	e	Egesippus	27	23	24		51	5	6	6	54
7	f	elestine	28	21	6	†	46	5	4	6	56
8	G	Dyonisius	29	20	18		48	5	2	6	58
9	a	Good-friday	0	18	0	W	58	5	0	7	0
10	b	Schillus	18	16	13		20	4	58	7	2
11	C	Easter day	2	15	25		57	4	56	7	4
12	d	Julius	3	13	8	≈	52	4	54	7	6
13	e	Ciburtius	4	11	22		10	4	52	7	8
14	f	Olympia	5	9	5	X	54	4	50	7	10
15	G	Frank. Oswald	6	7	10		6	4	48	7	12
16	a	Adaze	7	6	4	Y	42	4	46	7	14
17	b	Insectus	8	4	19		42	4	44	7	16
18	C	Low Sunday	9	2	4	8	54	4	43	7	17
19	d	Alphege M.	10	0	20		11	4	41	7	19
20	e	Ceadwald	10	58	5	II	20	4	39	7	21
21	f	Simeon	11	56	20		13	4	38	7	22
22	G	Peter	12	54	4	S	41	4	36	7	24
23	a	S. GEORGE	13	52	18		40	4	35	7	25
24	b	Albertus	14	49	2	Ω	10	4	33	7	27
25	C	S. Mark Evan.	15	47	15		13	4	31	7	28
26	d	Quind. Pasch.	16	45	27		52	4	30	7	30
27	e	Walburge	17	43	10	m	15	4	28	7	32
28	f	Term begins	18	41	22		22	4	26	7	34
29	G	Peter Mart.	19	38	4	≈	20	4	25	7	35
30	a	Erkenwald	20	36	16		13	4	23	7	37

With golden tears the clouds now seem to weep,  
Which the now teeming Earth do gently sleep;  
Who now puts on her coats of lussy green,  
With flowers pranked in goodly plight is seen.  
Thus they whom news of great joy doth surprise,  
Their real joy with mournfull tears disguise.

1	11	
2	12	* ♄ ♀ 4 p.
3	13	☽ ♄
4	14	☽ Apogzon
5	15	Fine warm &
6	16	seasonable
7	17	weather.
8	18	♂ ♄ ♀ 6 a.
9	19	Aperio porta-
10	20	rum to winds
11	21	and hail.
12	22	
13	23	* ♄ ☉ o.
14	24	
15	25	♀ Elong. a ☉
16	26	☽ ☽
17	27	☽ ♄ ♀ 14 p.
18	28	☽ Perigzon
19	29	Cold mulling.
20	30	
21	1	
22	2	
23	3	Cold and dry
24	4	and so con-
25	5	tinues to the
26	6	end.
27	7	♄ Sta. ad Ret.
28	8	
29	9	☽ ♄
30	10	

April 1680.

Cambridge Term ends the 2 day.

Mars will be our morning Star  
all this Month rising a little be-  
fore ☉ and on 25 day will be in  
conjunction with the Southern  
Star in the former Horn of *Aries*  
about half an hour before Sun  
rising.

Mercury may be seen in the  
West a little after Sun-setting.

May Roman account.

Cambridge Term begins the 21  
day.

# May hath xxxi days.

Full moon 3 day, 43 min. past 3 afternoon  
 Last quarter 11 day, 53 min past 10 beforenoon  
 New Moon 19 day 16 min. past 2 in the morning  
 First quarter 25 day 31 min. past 2 in the morning.

1	b	Phil. & Jacob	21	34	28	34	22	7	38
2	c	3 sun. af. East.	22	32	9	m	53	4	39
3	d	Ties Pasch.	23	29	21	47	19	7	41
4	e	Monica	24	27	3	f	46	4	43
5	f	Algiebe	25	24	15	50	16	7	44
6	g	John port. lat.	26	22	28	14	14	7	46
7	a	John of Bev.	27	20	13	v	21	7	47
8	b	opparit. Mich	28	17	22	51	11	7	49
9	c	4 su. af. East.	29	15	5	m	34	9	51
10	d	sun in Gem.	0 II	12	18	21	7	7	53
11	e	Anthony	1	9	1	x	44	6	54
12	f	Gordian	2	7	15	19	5	7	55
13	g	Servatus	3	4	29	15	4	7	56
14	a	Enstace m.	4	2	10	v	36	2	58
15	b	Sophia	4	59	28	18	1	7	59
16	c	Rogation su.	5	57	13	8	19	6	60
17	d	Quinq Pasch.	6	54	28	28	59	8	1
18	e	Sewil. bish.	7	51	13	II	37	8	2
19	f	Bernard	8	49	28	33	57	8	3
20	g	Ascension da.	9	46	13	5	7	8	4
21	a	Crast. Ascen.	10	43	27	15	3	8	5
22	b	Abelme	11	40	10	52	3	8	6
23	c	Sun alt. Ascen.	12	38	23	59	3	8	7
24	d	Teran ends	13	35	6	m	4	3	8
25	e	Urban	14	32	19	2	3	8	9
26	f	Wulfen	15	29	1	5	6	8	10
27	g	Weda	16	27	13	1	3	8	11
28	a	Jonas Ab.	17	24	24	49	3	8	12
29	b	K. Char. 2. N.	18	21	6	m	38	3	13
30	c	Whitunday	19	18	18	30	3	8	14
31	d	Petronella	20	15	0	f	17	3	14



Rise early now this pleasant month of *May*,  
 Walk now the fragrant fields so fresh and gay;  
 Who now invest with gayest robes rejoyce;  
 As brave *Titan* from th' Eastern wave doth rise,  
 Who with his presence mickle mirth doth bring,  
 To th' airy Bids. with warbling notes who sing.

May 1680.

1	11	Apogzon.
2	12	
3	13	♂ ♀ ☉ i f a.
4	14	Warm with
5	15	thunder.
6	16	* h ♂ 15 p.
7	17	♂ ☉ ♀ 4 p.
8	18	
9	19	Windy now
10	20	with hail.
11	21	♂ ♀ ☉ o.
12	22	
13	23	
14	24	♂ ☉
15	25	* h ♀ o.
16	26	♂ Perigzon.
17	27	Warm showry
18	28	weather wel-
19	29	come to the
20	30	tender herbs.
21	31	♂ St. ad Dir.
22	1	Hot and like
23	2	to thunder.
24	3	
25	4	
26	5	♂ ☉
27	6	♂ ♂ ♀ o.
28	7	
29	8	♂ Apogzon
30	9	Temperate &
31	10	seasonable.

*Mars* continues our morning  
 Star all this month. *Jupiter* may  
 be seen in mornings at the latter  
 end of the month not far from  
 ♂ but nighest the Sun.

June Roman account.

# June hath xxx days.

Full moon 2 day, at 27 min. past 6 in the morning

Last quarter 9 day, 16 min. past 6 at night

New moon 16 day, 21 min. past 9 in the morning

First quarter 23 day, 2 min. past 8 at night.

1	e	Damphilus	21	12	12	f	31	3	46	8	14
2	f	Ember week	22	10	24		47	3	41	8	15
3	B	Marceline	23	7	7	w	12	3	45	8	15
4	a	Petrocius	24	4	19		48	3	45	8	15
5	h	Boniface m.	25	1	2	m	31	3	44	8	16
6	C	Trinity Sund.	25	58	15		28	3	44	8	16
7	D	Craft Trin.	26	55	28		35	3	44	8	16
8	e	Belagla	27	52	11	X	55	3	43	8	17
9	f	Witham Bish.	28	49	25		28	3	43	8	17
10	B	Corp. Christ.	29	46	2	v	16	3	43	8	17
11	a	S. Barnabas	0	43	Term be.			3	43	8	17
12	h	Blandine	1	40	7	o	46	3	43	8	17
13	C	1 Sun. aft. Trin	2	37	22		24	3	43	8	17
14	D	Octab. Trin.	3	35	7	II	12	3	41	8	17
15	e	Modestus	4	32	22		2	3	43	8	17
16	f	Richard	5	29	6	S	48	3	44	8	16
17	B	Botolph ab.	6	26	21		17	3	44	8	16
18	a	Mark	7	23	5	Ω	21	3	44	8	16
19	h	Gerbasus	8	20	18		1	3	45	8	15
20	C	2 Sun. af. Tri.	9	17	2	m	12	3	45	8	15
21	D	Quind Trin.	10	14	14		55	3	45	8	15
22	e	Wibon	11	11	27		18	3	46	8	14
23	f	Praswin	12	8	9	≡	23	3	46	8	14
24	B	John Baptist	13	5	21		16	3	46	8	14
25	a	Loy bish.	14	2	3	m	5	3	47	8	13
26	h	John & Paul	14	59	14		55	3	47	8	13
27	C	3 sun. af. Trin.	15	56	26		45	3	48	8	13
28	D	Fres Trin.	16	53	8	f	42	3	49	8	11
29	e	S. Peter Apo.	17	50	20		59	3	50	8	10
30	f	Term ends	18	48	3	w	24	3	51	8	9

Brave *Phæbus* now with gallant force is come,  
 To's highest pitch, but quickly doth return :  
 As Man to's primeſt age with joy aſpires  
 And then to th' ſilent grave with grief retires :  
 While *Phæbus* then a glowing beam doth lend,  
 See that with care the withred hay you tend.

June 1680.

*Mercury, Venus and Mars* are  
 now near together and may be  
 ſeen riſing a little before the Sun  
 not far from the *Pleiades*.

1	11	☿ elong. á ☉
2	12	♂ ☿ ☿ o.
3	13	♂ ♀ ☿ 4 p.
4	14	(♂ ♀ ☿ 15 p.
5	15	Good ſeaſon-
6	16	able weather
7	17	uſhers in the
8	18	month.
9	19	moſt air.
10	20	♂ ♀ ☿ 7 p.
11	21	☿ Perigzon.
12	22	♂ ☿ ☿ 9 a.
13	23	Hot with
14	24	thunder clear-
15	25	ing the a r.
16	26	
17	27	
18	28	
19	29	Hot: and d y.
20	30	
21	1	
22	2	☿ cum ☉
23	3	♂ ☿ ☉ 6 p.
24	4	Heat abated.
25	5	
26	6	☿ Apogzon.
27	7	
28	8	♂ ☿ ☿ 12 p.
29	9	<i>Apertio port.</i>
30	10	to winds.

July Roman account.

# July hath xxxi days.

Full moon 1 day, 29 min. past 7 at night  
 Last quarter 9 day, 1 min. after 12 in the morning  
 New moon 15 day, 29 min. past 6 at night  
 First quarter 23 day, 14 min. past 11 before noon  
 Full moon 31 day, 11 min. past 7 in the morning.

1	B	Rumbold b.	19	45	16	W	23	53	18	7
2	a	Visit. Mary	20	42	28		55	3	8	6
3	b	Hincmarus	21	39	12	W	13	55	8	5
4	c	4 aft. Trin.	22	36	25		17	3	8	4
5	d	Anselme	23	33	8	X	44	3	8	3
6	e	Seybutga	24	30	22		17	3	8	2
7	f	Demetrius	25	28	6	V	13	59	8	1
8	g	Grambold	26	25	19		54	4	8	0
9	a	Edilburg	27	22	3	W	33	4	7	59
10	b	7 Brethren	28	19	18		5	4	7	57
11	c	5 aft. Trin.	29	16	2	II	21	4	7	56
12	d	Sun in Leo	0	14	16		45	4	7	55
13	e	Anacletus	1	11	1	W	9	4	7	53
14	f	Bonaventure	2	8	15		29	4	7	52
15	g	Swithin W.	3	5	29		37	4	10	50
16	a	Osmond B.	4	3	13	W	29	4	1	49
17	b	Eleus	5	0	26		58	4	13	47
18	c	6 after Trin.	5	57	10	W	5	4	15	45
19	d	Dog days beg.	6	54	22		49	4	17	43
20	e	Margaret	7	52	5	W	13	4	19	41
21	f	Daniel	8	49	17		20	4	21	39
22	g	Barp Mag.	9	47	29		17	4	22	38
23	a	Apollinaris	10	44	11	W	5	4	24	36
24	b	Christian 1a.	11	41	22		54	4	26	34
25	c	S. Jam. Apo.	12	39	4	W	47	4	27	33
26	d	Anns	13	36	16		47	4	29	31
27	e	Pantaleon	14	34	29		2	4	30	30
28	f	Julius	15	31	11	W	33	4	32	28
29	g	Martha m.	16	29	24		2	4	33	27
30	a	Eddon m.	17	26	7	W	30	4	35	25
31	b	Ignatius	18	24	20		55	4	37	23

Sun-rising.

Sun-setting.

Now to fierce *Leo*, *Sol* doth Retrograde,  
 The scorched Earth with burning heat doth fade,  
 Who now with weighry grain be g laden,  
 Calls the Farmer to ease her of this burden,  
 Who with his Sickle arm'd, soon doth obey,  
 And furiously the lusty *Con* doth slay.

July 1680.

1	11	
2	12	♂ ☉ ♀ 5 p.
3	13	Wet but not
4	14	very hot for
5	15	the season.
6	16	
7	17	☾ cum ☿.
8	18	☾ Perigæon.
9	19	♂ ☿ ♀ 4 p.
10	20	* ☿ ♀ 12 p.
11	21	Stormy wea-
12	22	ther.
13	23	
14	24	
15	25	
16	26	
17	27	
18	28	More tempe-
19	29	rate now.
20	30	☾ ☿
21	31	
22	1	☾ Apogæon.
23	2	* ☿ ☉ 10 a.
24	3	* ☿ ♀ 7 a.
25	4	
26	5	Very uncer-
27	6	tain windy
28	7	weather if
29	8	not rain.
30	9	☐ ☿ ♀ 11 p.
31	10	* ☿ ♀ 17 p.

The 6 day is Commencement  
 Tuesday.

Cambridge Term ends the 9 day.

*Venus* and *Mercury* are hid un-  
 der the Sun beams the most part  
 of this month.

August Roman account.

B 3

# August hath xxxi days.

Last quarter 7 day, 17 min. past 5 in the morning  
 New moon 14 day, 28 min. past 5 in the morning  
 First quarter 21 day, 50 min. past 2 in the morning  
 Full moon 29 day, 54 min. past 5 afternoon.

1	C	Lammas	19	21	4	X	35	4	38	7	22
2	D	Stephen M.	20	19	18		27	4	39	7	20
3	E	Invent. Steph.	21	17	1	V	27	4	41	7	19
4	F	Bristarchus	22	14	16		32	4	43	7	17
5	G	Oswald	23	12	0	U	40	4	44	7	16
6	A	Trans. Christ	24	10	14		47	4	46	7	14
7	B	Donat. M.	25	7	28		54	4	48	7	12
8	C	2 aft. Trin.	26	5	12	II	58	4	50	7	10
9	D	Roman M.	27	3	27		4	4	52	7	8
10	E	S. Leaven,	28	1	11	S	2	4	54	7	6
11	F	Et is	28	59	24		53	4	56	7	4
12	J	Clare Virg.	29	57	8	Ω	33	4	58	7	2
13	A	Sun in Virgo	0	54	22		1	5	0	7	0
14	B	Eusebius	1	52	5	π	13	5	2	6	58
15	C	10 aft. Trin.	2	50	18		7	5	4	6	56
16	D	Roch M.	3	48	0	≈	45	5	6	6	54
17	E	Hammer	4	46	13		6	5	8	6	52
18	F	Helen Emp.	5	44	25		12	5	10	6	50
19	G	S. balders	6	42	7	m	9	5	12	6	48
20	A	Bernard	7	41	19		1	5	14	6	46
21	B	Richard bll.	8	39	0	‡	52	5	16	6	44
22	C	11 aft. Trin.	9	37	12		42	5	18	6	42
23	D	Zacheus fast	10	35	24		41	5	20	6	40
24	E	S. Bartholom.	11	33	6	W	57	5	22	6	38
25	F	Lewis King	12	32	19		28	5	24	6	36
26	G	Trencus	13	30	2	≡	20	5	26	6	34
27	A	Dog days end	14	28	15		35	5	28	6	32
28	B	Augustine b.	15	27	29		12	5	30	6	30
29	C	12 aft. Trin.	16	25	13	X	12	5	32	6	28
30	D	Felix	17	23	27		28	5	34	6	26
31	E	Adrian	18	22	11	V	55	5	36	6	24



As Sol arrives to th' Coelestial Maid,  
Proud Ceres rancks with hooked Sythe are slay'd;  
Then take in the crops o' th' well manur'd soile,  
Enj y the sweet of your deserving toyle;  
And as with lussy Thieves your Cart you load,  
With gratefull hearts thele rich su<sub>r</sub>plies record.

1	11	Temperate
2	12	weather with
3	13	* h ♀ 16 p.
4	14	☾ cum ☿.
5	15	Gentle winds.
6	16	☿ Perigzon.
7	17	
8	18	
9	19	Good and
10	20	seasonable for
11	21	the harvest.
12	22	
13	23	☿ elon. m. a ☉
14	24	
15	25	
16	26	☾ cum ♄.
17	27	Moist and
18	28	temperate.
19	29	☾ Apogzon.
20	30	♂ h ♂ ☉.
21	31	
22	1	Seasonable &
23	2	little altera-
24	3	tion to the end
25	4	of the month.
26	5	♂ ☉ ♀ ☉.
27	6	☐ ♀ ♀ 12 p.
28	7	☐ ♀ ☉ 8 a.
29	8	☿ Stat. 2d Re.
30	9	☾ ☿
31	10	* h ♀ 16 p.

August 1680.

☿ and h may be seen rising  
before ☉ all this month.

☿ at his greatest Occidental  
distance from ☉, may be seen a  
while after Sun setting.

September Roman account.

☿ now becomes Occidental.

# September hath xxx days.

Last quarter 5 day, 54 min. past 10 in the morning  
 New moon 12 day, 21 min. past 7 at night  
 First quarter 20 day, 54 min. past 10 at night  
 Full moon 28 day, 51 min. past 3 in the morning. W

1	f	Giles abbot	19	20	26	γ	27	5	38	6	11	22
2	g	Seraphia	20	19	11	δ	15		40	6	11	20
3	a	Lopus	21	18	25		25		42	6		18
4	b	Tram. Curb.	22	18	9	II	46	3	44	6	Sun- festing.	16
5	c	13 aft. Trin.	23	15	23		51	5	46	6		14
6	d	Magnus	24	13	7	☉	45	5	48	6		12
7	e	San. Dunst.	25	12	21		25	5	50	6		10
8	f	Nr. of Mary	26	11	4	Ω	53	5	52	6		8
9	g	Borgon	27	10	18		8	5	54	6		6
10	a	Nicholas	28	8	1	☿	10	5	56	6		4
11	b	Jacynthus	29	7	14		1	5	58	6		2
12	c	San in Libra	0	6	26		36	5	0	6		0
13	d	Amatus	1	5	9	♊	1	6	2	5		58
14	e	Exil. Clavis	2	4	21		15	6	4	5		56
15	f	Ember week	3	3	3	m	19	6	6	5		54
16	g	Cornelius	4	2	15		15	6	8	5		52
17	a	Stephen	5	1	27		9	6	10	5		50
18	b	Winock	6	0	8	♋	59	6	12	5		48
19	c	15 aft. Trin.	6	59	20		53	6	14	5		46
20	d	Enfacing	7	59	2	☿	54	6	16	5		44
21	e	S. Matthew	8	58	15		5	6	18	5		42
22	f	Spas. week	9	57	27		31	6	20	5		40
23	g	Annus P. M.	10	56	10	♊	26	6	22	5		38
24	a	Winebold	11	56	23		32	6	24	5		36
25	b	Geofride	12	55	7	♋	11	6	26	5		34
26	c	16 aft. Trin.	13	55	21		17	6	28	5		32
27	d	Co. & D.	14	54	5	☿	4	6	30	5		30
28	e	John	15	53	20		18	6	32	5		28
29	f	S. Michael Ar.	16	53	5	♋	23	6	34	5		26
30	g	S. Hierome	17	53	20		33	6	36	5		24

With a just ballance Libres now doth weigh,  
The silent dusky Night and chearfull Day :  
Proud *Tellus* of her lovely beauty bates;  
*Pomona* loads her lap with delicates:  
But in such variety of all food,  
Beware of surfeits, feed on that that's good.

11 \* h © 7P.  
12 D Perigzon.  
13 Stormy the  
14 beginning but  
15 continues not.

September 1680.

**Sturbridge Fair begins the 8 day.**

9	19	♂ ☉ ♀ 8 a.
10	20	* ♂ ♀ 8 p.
11	21	Milking and
12	22	☉ Eclipsed.
13	23	uncertain,
14	24	Warm with
15	25	* ♀ 3 p.
16	26	☿ Apogee.
17	27	winds & rain.
18	28	☿ S. ad Dir.

It rises this month about mid-  
night: ♀ and ♂ about an hour  
after him.

20	39	
21	1	* h o 6 P.
22	2	(Δ ♀ 12.
23	3	Cold.
24	4	♂ elong. a ☉
25	5	♀ Star. ad. R.
26	6	□ h ♀ 4 P.
27	7	☾ cum ☉
28	8	Δ ♀ ☉ 13 P.
29	9	
30	10	☽ Perigon

October Roman account.

10 D Perigzon

# October hath xxxi days.

Last quarter 4 day, 50 min. past 6 afternoon  
 New moon 12 day, 54 min past 11 before noon  
 First quarter 20 day, 36 min. past 3 afternoon  
 Full moon 27 day, 40 min. past 2 afternoon

1	a	Remigius	18	52	5	II	24	6	39	5	21
2	b	Leodegar	19	52	20	9	4	6	41	5	19
3	c	17 after Trin.	20	51	4	8	20	6	43	5	17
4	d	Francis	21	51	18	5	16	6	45	5	15
5	e	Blacidus	22	51	1	♄	50	6	47	5	13
6	f	Enno	23	51	15		5	6	49	5	11
7	g	Mark	24	50	28		3	6	50	5	10
8	a	Demetrius	25	50	10	♊	46	6	52	5	8
9	b	Dionysius	26	50	23		16	6	54	5	6
10	c	18 aft. Trin.	27	50	5	♈	35	6	56	5	4
11	d	Picatus	28	50	17		46	6	58	5	2
12	e	Wulfine	29	50	29		51	7	0	5	0
13	f	Sun in Scor.	0 m	50	11	♋	50	7	2	4	38
14	g	Calixtus	1	50	23		45	7	4	4	36
15	a	Ceresa	2	50	5	♌	38	7	6	4	34
16	b	Gallus	3	50	17		32	7	8	4	32
17	c	19 aft. Trin.	4	50	29		29	7	10	4	30
18	d	S. Luke Evan.	5	50	11	♍	31	7	12	4	28
19	e	Ptolomy	6	51	23		42	7	14	4	26
20	f	Tres Mich.	7	51	6	♎	6	7	15	4	24
21	g	Matthias	8	51	18		48	7	17	4	22
22	a	Corbula m.	9	51	1	♏	53	7	19	4	20
23	b	Term begins	10	52	15		25	7	20	4	18
24	c	20 aft. Trin.	11	52	29		23	7	22	4	16
25	d	Crispine	12	53	13	♐	51	7	24	4	14
26	e	Evaristus	13	53	28		44	7	25	4	12
27	f	Mens Mch. f.	14	53	13	♑	54	7	27	4	10
28	g	Sim. & Jude	15	54	29		11	7	29	4	8
29	a	Amarandus	16	54	14	♒	25	7	30	4	6
30	b	Agelnoth	17	56	29		24	7	32	4	4
31	c	21 aft. Trin.	18	56	13	♓	58	7	33	4	2

Scorpio now brave ~~Sal~~ doth make his Inn,  
 Who of cold Winter doth the tidings bring;  
 Pleasant runes now depart the tawny woods;  
 The naked Earth abounds with leaves and floods.  
 Here an emblem of thy life may't thou have,  
 Green now, gray anon, to morrow i th' grave.

## October 1680.

1 11  
 2 12  
 3 13 \* ♄ ♂ 15 p.  
 04 14 Tempestuous  
 5 15 ☐ ♄ ☉ 6a.  
 6 16 and windy.

On the 4 day ♄ will be in conjunction with ♄ at 8 at night and may be seen at a little distance from her in the morning.

7 17  
 8 18 Cold cloudy  
 9 19 Δ ♄ ♀ 5 a.  
 10 20 ☾ cum ☉.  
 11 21 \* ♂ ♀ 5 a.  
 12 22 ☾ Apogæon.  
 13 23 weather.

Cambridge Term begins the 11 day, and then the Professours, Tax-  
 ous and Scrutators are chosen.

14 24  
 15 25  
 16 26  
 17 27  
 18 28  
 19 29 Wet slabby  
 20 30 weather to-  
 21 31 wards the end  
 22 1 with winds.

November Roman account  
 Magna Congregatio or Black  
 Assembly the 21 day.

23 2 ☾ cum ☽.  
 24 3 ☐ ♂ ♀ 7 p.  
 25 4 ♂ ☉ ♀ 10 a.  
 26 5  
 27 6  
 28 7 ☾ Perigæon.  
 29 8  
 30 9  
 31 10 Δ ♄ ♀ 10 p.

# November hath xxx days.

Last quarter 3 day, 5 min. past 6 in the morning  
 New moon 11 day, 30 min. past 6 in the morning  
 First quarter 19 day, 21 min. past 6 in the morning  
 Full moon 25 day, 35 min. past 11 at night.

1	D	All Saints	19	56	28	5	7	7	35	4	25
2	E	All Souls	20	57	11	Ω	46	7	37	4	23
3	F	Craft. Anim.	21	57	24		59	7	39	4	21
4	G	Vital s	22	58	7	☾	50	7	41	4	19
5	A	Powder Plog.	23	59	20		22	7	43	4	17
6	B	Leonard	25	0	2	☿	39	7	45	4	15
7	C	12 aft. Trin.	26	0	4		46	7	47	4	13
8	D	Seber s	27	1	26		47	7	49	4	11
9	E	Claudian	28	2	8	☿	43	7	51	4	9
10	F	Crithon	29	2	20		38	7	52	4	8
11	G	Sun in Sagit.	0	4	2	♂	33	7	54	4	6
12	A	Craft. Mart.	1	5	4		28	7	55	4	5
13	B	William	2	6	26		27	7	57	4	3
14	C	23 aft. Trin.	3	7	8	☿	29	7	59	4	1
15	D	Leopold	4	7	20		37	8	0	4	0
16	E	Edmond	5	8	2	☿	53	8	1	3	59
17	F	Clement	6	10	5		20	8	2	3	58
18	G	Octab. Mart.	7	11	28			8	3	3	57
19	A	Pontion	8	12	11	☿	1	8	4	3	56
20	B	Edmund R.	9	13	24		22	8	5	3	55
21	C	24 aft. Trin.	10	14	8	☿	9	8	6	3	54
22	D	Cleek Wrg.	11	15	22		24	8	7	3	53
23	E	Clement	12	16	7	☿	4	8	8	3	52
24	F	Christog. M.	13	17	22		8	8	9	3	51
25	G	Quind. Mart.	14	18	7	☿	24	8	10	3	50
26	A	Peter B. M.	15	19	22		43	8	11	3	49
27	B	Oba Wrg. fa	16	20	7	☿	51	8	12	3	48
28	C	Advent Sund.	7	22	12		39	8	12	3	48
29	D	Term ends	8	23	6	☿	59	8	13	3	47
30	E	S. Andrew	19	24	20		49	8	14	3	46



Cold Boreas with churlish breath doth blow,  
 And o're the streams a Crystal crust doth throw,  
 Sol's absence now it's but folly to lament;  
 For to th' Southern Pole his hot steeds are bent;  
 And e're to usward he doth set his face,  
 He must run the Circuit o'th' Southern race.

1	11	Frosty sharp
2	12	weather
3	13	approaches.
4	14	$\Delta$ h $\odot$ 9a.
5	15	D cum $\odot$
6	16	$\odot$ $\propto$ $\odot$ 3 p.
7	17	High winds
8	18	$\square$ $\odot$ $\odot$ 10a.
9	19	and hail.
10	20	D Apogzon.
11	21	
12	22	
13	23	$\odot$ $\propto$ $\odot$ 3 p.
14	24	
15	25	A cold winter-
16	26	like season.
17	27	
18	28	
19	29	
20	30	D cum $\odot$
21	1	
22	2	$\odot$ $\odot$ $\propto$ 3 p.
23	3	( $\square$ $\odot$ $\propto$ )
24	4	$\odot$ Perigzon.
25	5	Cold abated
26	6	but high
27	7	winds.
28	8	Temperate to
29	9	the end.
30	10	

November 1680.

The Vice-chancellor lays  
 down his Office the 3 day.

December Roman account.

On the 25 day  $\propto$  will be in  
 conjunction with D at 6 at night  
 and may be seen towards morn-  
 ing near her.

# December hath xxxi days.

Last quarter 2 day, 16 min. past 9 at night

New moon 11 day, 27 min. past 2 in the morning

First quarter 18 day, 44 min. past 6 at night

Full moon 25 day, 11 min. past 10 in the morning

1	f	Elisiana	20	25	4	☾	8	8	14	3	46
2	g	Lucius B.	21	26	17		0	8	14	3	46
3	a	Cassianus	22	28	29	30	2		15	3	45
4	b	Barbara br.	23	29	11	☾	43	8	15	3	45
5	c	2 in Advent	24	30	23		45	8	15	3	45
6	d	Nicholas b.	25	31	5	☾	41	8	16	3	44
7	e	Ambrose C.	26	33	17		34	8	16	3	44
8	f	Concep. Mary	27	34	29		26	8	16	3	44
9	g	Leocadia	28	35	11	☾	21	8	17	3	43
10	a	Damasc. s	29	37	22		20	8	17	3	43
11	b	Sun in Capr.	0	38	5	☾	27	8	17	3	43
12	c	3 in Advent	1	☾	39	17	39	8	17	3	43
13	d	Lucia	2	41	29		59	8	17	3	43
14	e	Abraham	3	42	12	☾	25	8	17	3	43
15	f	Ember week	4	43	25		4	8	17	3	43
16	g	O Sapientia	5	44	7	☾	42	8	16	3	41
17	a	Lezarus	6	46	20		56	8	16	3	44
18	b	Winchald	7	47	4	☾	15	8	16	3	44
19	c	4 sun. in Adv.	8	48	17		53	8	15	3	45
20	d	Julius fast	9	50	1	☾	53	8	15	3	45
21	e	S. Thomas	10	51	16		17	8	15	3	45
22	f	30 Martyrs	11	52	0	☾	59	8	14	3	46
23	g	Agatha	12	54	15		57	8	14	3	46
24	a	Ad. & Ev. fast	13	55	0	☾	59	8	13	3	47
25	b	Christ born	14	56	16		1	8	12	3	48
26	c	S. Stephen	15	58	0	☾	4	8	11	3	49
27	d	S. John	16	59	15		6	8	10	3	50
28	e	Innocents	18	0	29		2	8	9	3	51
29	f	Ex. scens	19	1	12	☾	28	8	8	3	52
30	g	Daye	20	3	25		26	8	7	3	53
31	a	Stilvest. p.	21	4	8	☾	1	8	6	3	54

Sun. rising.

Sun. setting.

Now comes cold Hyem void of all delight,  
 With trembling steps, cloath'd with garments white;  
 Scarce now doth Tityus shew his Golden head,  
 But lays it down again in th' Western Bed.  
 In whose absence hence Hyem doth dismay,  
 All Creatures who lament bright Sol's delay.

1	11	Δ δ ♀ 9 p.	December 1680.
2	12	Warm for the	
3	13	♂ ♂	
4	14	Season.	
5	15		
6	16	♂ h ♀ 13 p.	
7	17	Δ 3 ♀ 14 p.	
8	18	♀ elong a ♂	
9	19	♂ Apogzon.	
10	20	Cold now in-	
11	21	creases.	
12	22	♂ h ♀ 7 p.	
13	23	Wind with	
14	24	snow.	
15	25		
16	26	♂ Star. ad Di.	Cambridge Term ends the 16
17	27	* h ♂ 17 p.	day.
18	28	♂ h ♀ 3 p.	
19	29	♂ cum ♀.	
20	30	Δ ♀ 5 a.	
21	31		
22	1	Rain like.	January Roman acco. 1681.
23	2	♂ Perigzon	
24	3	♂ ♂ ♀ 2 p.	
25	4	A cold frosty	
26	5	Christmas.	
27	6		
28	7		
29	8	♂ h ♂ 1 p.	
30	9	♂ ♂.	
31	10		

A Regal Table from Egbert (whom it is thought  
England took its name) to our Sovereign Lord  
King Charles the Second.

Kings names.	Reig. began A. C.	Reig. ended A. C.	Kings names.	Reig. began A. C.	Reig. ended A. C.
Egbert	818	18	Henry	1154	31
Ethelwolf	836	21	Richard	1189	16
Ethelbald	857	1	John	1199	17
Ethelbert	858	5	Henry	1216	16
Ethelfred	863	10	Edward	1272	28
Alfred	873	27	Edward	1307	19
Edward 1. sax	900	24	Edward	1326	21
Ethelstan	924	16	Richard	1377	21
Edmond 1.	940	6	Line of Lanc.		
Edred	946	9	Henry	1399	13
Edwyn	955	4	Henry	1413	14
Edgar	959	20	Henry	1422	28
Edward 2. sax.	979	27	Line of York.		
Ethelred	982	34	Edward	1460	23
Edmond 2.	1016	1	Edward	1483	20
Danish Line			Richard	1483	2
Canutus	1017	20	Familys divided		
Harold 1.	1037	3	Henry	1495	24
Hardicanutus	1040	2	Henry	1508	40
Edward conf.	1042	23	Edward	1547	6
Harold 2.	1065	2	Q. Mary	1553	5
Norman Line			Q. Elizabeth	1558	44
Wil. Conquer.	1066	20	King James	1601	22
Wil. Rufus.	1087	13	Charls	1625	24
Henry 1	1100	35	Charls	1648	32
Stephen	1135	19	whom God		
Saxon Line restored			preserve.		

This Table needs no explanation, for find but the Kings  
name in the 1. or 4 Column, and in the 2. or 5. you have  
the year of Christ in which he began his Reign, and in  
the 3. or 6. Column the years he Reigned.

S W A N

The second part of this

ALEMANACK

for the year of our

LORD GOD

Wherein is contained the places of the Planets according to their mean motions on the first of January with the places of their Apogees, Aphelions and North Nodes; Also the mean Annual & Diurnal motions of them. The Periodical revolution of the Planets, A Table of the Revolution of the Aquinoctial Equinox of the Heavens at the Sun's entrance into Aries with an account thereof, the Solstices with many other things worthy of notice.

MAGNIBVS DAMNO, EQUISITVS OMNIVS

VOLUNTARIIS SVIS.

CAMBRIDGE

Printed by Iohn Hayes, Printer to the University, 1688.

*A Table of the Houses of the Mean Motion of the Planets*  
 Calculated for the Meridian of Cambridge, but may  
 serve for any other Place, and fitted to the Meridian of the  
 first day of January any year 1600 0000, which you may  
 find their places in this Table according to their mean  
 motions, with the places of their Apogee and Aphelions  
 and Nodes, being all exactly let down for that time, as  
 for January the year 1600 0000  
 Extracted from the most accurate Tables of Astronomia  
 Britannica.

The Retrocession of the Equinox	18	43	18
from the first Star of ♈.			
The Obliquity of the Zodiac	23	29	21
Mean mot. of the Long. of ☿ from ♈.	2	48	48
The Apogee of the ☿.	10	20	10
The Mean motion of the Moon	29	12	21
The Apogee of the Moon	12	20	12
The North Node of the Moon	12	20	12
The Mean motion of the Long. of ♀.	13	10	13
The Aphelion of ♀.	13	10	13
The North Node of ♀.	13	10	13
The Mean mot. of the Long. of ♁.	10	8	10
The Aphelion of ♁.	10	8	10
The North Node of ♁.	10	8	10
The Mean mot. of the Long. of ♃.	10	8	10
The Aphelion of ♃.	10	8	10
The North Node of ♃.	10	8	10
The Mean mot. of the Long. of ♄.	10	8	10
The Aphelion of ♄.	10	8	10
The North Node of ♄.	10	8	10
The Mean mot. of the Long. of ♅.	10	8	10
The Aphelion of ♅.	10	8	10
The North Node of ♅.	10	8	10
The Mean mot. of the Long. of ♆.	10	8	10
The Aphelion of ♆.	10	8	10
The North Node of ♆.	10	8	10
The Mean mot. of the Long. of ♇.	10	8	10
The Aphelion of ♇.	10	8	10
The North Node of ♇.	10	8	10
The Mean mot. of the Long. of ♈.	10	8	10
The Aphelion of ♈.	10	8	10
The North Node of ♈.	10	8	10
The Mean mot. of the Long. of ♉.	10	8	10
The Aphelion of ♉.	10	8	10
The North Node of ♉.	10	8	10
The Mean mot. of the Long. of ♊.	10	8	10
The Aphelion of ♊.	10	8	10
The North Node of ♊.	10	8	10
The Mean mot. of the Long. of ♋.	10	8	10
The Aphelion of ♋.	10	8	10
The North Node of ♋.	10	8	10
The Mean mot. of the Long. of ♌.	10	8	10
The Aphelion of ♌.	10	8	10
The North Node of ♌.	10	8	10
The Mean mot. of the Long. of ♍.	10	8	10
The Aphelion of ♍.	10	8	10
The North Node of ♍.	10	8	10
The Mean mot. of the Long. of ♎.	10	8	10
The Aphelion of ♎.	10	8	10
The North Node of ♎.	10	8	10
The Mean mot. of the Long. of ♏.	10	8	10
The Aphelion of ♏.	10	8	10
The North Node of ♏.	10	8	10
The Mean mot. of the Long. of ♐.	10	8	10
The Aphelion of ♐.	10	8	10
The North Node of ♐.	10	8	10
The Mean mot. of the Long. of ♑.	10	8	10
The Aphelion of ♑.	10	8	10
The North Node of ♑.	10	8	10
The Mean mot. of the Long. of ♒.	10	8	10
The Aphelion of ♒.	10	8	10
The North Node of ♒.	10	8	10
The Mean mot. of the Long. of ♓.	10	8	10
The Aphelion of ♓.	10	8	10
The North Node of ♓.	10	8	10



# The Explication of the former Tables.

The undermost Table serves onely for the better understanding of the uppermost, the Signs in it being distributed into their proper numbers, which because the numbers for the Signs are most used in such calculations; I have here set it which shews you what Sign belongs to any number, as suppose the motion be 3 S 50, look for 3 in the Table, and right over it you will find 3 the Sign which y denotes, and so for the rest.

The uppermost Table contains all the above mentioned motions, viz. the mean motions of the Longitudes of the Planets, their Apogezons, Aphelions and Nodes: the Signs, degrees, minutes and seconds stand right against the nominated motions as you see, as against the retrocession of the Equinox there stands 0 S. 25 d. 43 min. 10 seconds which is the Retrocession of the Equinox from 7. to 2. gainst 0 Apogzon there stands 7 27 deg. 43 38 which shews that 0 apog. is in 7 deg. 43 38 of Cancer. in like manner for the rest, the numbers standing before the Character of the Signs shew how many each Sign is distant from Aries.

The Diurnal motions with the Periodical Revolution of the Planets in Egyptian years which contain 36525.

The Mean	0 31 27	Their Revolut	29 17 14
Diurnal	0 31 27	mones	29 17 14
motions	0 31 27	of	29 17 14

The Annual motion of the Aphelions of the Planets which is the Place of their greatest distance from the Sun.

The Mean Annual	0 31 27	Motion of the A	29 17 14
phenion of	0 31 27	phenion of	29 17 14
of	0 31 27	of	29 17 14



SWAN 1680.

The Annual motions of their North Nodes, which is the intersection of their Orbits with the Ecliptick.

The Annual motion of the North Node of }  
the North Node of }  
the North Node of }

These motions are performed upon the Ecliptick of their Orbits, and are called mean or equal because they are always and as it were the mean between the lesser and greater motions.

The Period from which they begin their motions is the first Star of A horn.

The Diurnal mean motion of the Moons Longitude is 13 deg. 10 min. 37 sec. and according to this motion she makes her revolution in 27 days, 7 hours, 43 min. 7 sec. and this is called a Periodical month, because in this time she returns again to the same point from which she departed: But if this motion begin at the mean place of the Sun and there ends also, then is it called the equal or mean Longitude of the Moon from the Sun, and then her daily motion is 12 deg. 11 min. 26" 41" making her revolution in 29 days, 12 hours, 44 min. 8 sec. the time of this revolution is called a Synodical month, because when the line of the mean motions of ☉ & ☾ fall together.

The mean motion of the Apogon of the Moon in a day is 6 min. 41" which Apogon is the place of her greatest distance from the Earth.

The Diurnal motion of her North Node is 3 min. 11" which moves contrary to the succession of the Signs, viz. from A to B &c. &c. it performs its revolution in 18 1/2 years, and 113 days, 6 hours, &c. is called the North Node or the Dragons head, because when the Moon or other Planets come to this perfection in the Ecliptick they begin to proceed Northward, for the same reason is the opposite intersection called the South Node, because when they begin to move Southward &c. to make South Lat. The

The mean Diurnal motion of ☉ or the Earth is 59' 8" making his revolution in 365 days, 5 h. 49' 4" which we call a Tropical year, which is the time the Sun passes from a certain point and returns to it again: But the time he passes from a fixed Star and returns to it again is called a Syderial year, and contains 365 days, 6 h. 9 min. 46 sec.

The mean Annual motion of the Apogon of the Sun or Aphelion of the Earth is 1 min. 2 seconds.

The Annual motion of the Retrocession of the Equinox or Progreſſion of the fixed Stars in Longitude is 50" 12" 3" the diurnal motion 8" 15" its periodical revolution in Egyptian years is 25816 years, in Julian years 25779 years 120 days, according to Copernicus.

A Table of the Retroceſſion of the Equinox and Progreſſion of the fixed Stars in Lat.

Year.	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
1000	0	50	100	150	200	250	300	350	400	450
2000	1	40	80	120	160	200	240	280	320	360
3000	2	30	60	90	120	150	180	210	240	270
4000	3	20	40	60	80	100	120	140	160	180
5000	4	10	30	50	70	90	110	130	150	170
6000	5	0	20	40	60	80	100	120	140	160
7000	6	0	10	30	50	70	90	110	130	150
8000	7	0	0	20	40	60	80	100	120	140
9000	8	0	0	10	30	50	70	90	110	130
10000	9	0	0	0	20	40	60	80	100	120
11000	10	0	0	0	10	30	50	70	90	110
12000	11	0	0	0	0	20	40	60	80	100
13000	12	0	0	0	0	10	30	50	70	90
14000	13	0	0	0	0	0	20	40	60	80
15000	14	0	0	0	0	0	10	30	50	70
16000	15	0	0	0	0	0	0	20	40	60
17000	16	0	0	0	0	0	0	10	30	50
18000	17	0	0	0	0	0	0	0	20	40
19000	18	0	0	0	0	0	0	0	10	30
20000	19	0	0	0	0	0	0	0	0	20
21000	20	0	0	0	0	0	0	0	0	10
22000	21	0	0	0	0	0	0	0	0	0
23000	22	0	0	0	0	0	0	0	0	0
24000	23	0	0	0	0	0	0	0	0	0
25000	24	0	0	0	0	0	0	0	0	0
26000	25	0	0	0	0	0	0	0	0	0
27000	26	0	0	0	0	0	0	0	0	0
28000	27	0	0	0	0	0	0	0	0	0
29000	28	0	0	0	0	0	0	0	0	0
30000	29	0	0	0	0	0	0	0	0	0
31000	30	0	0	0	0	0	0	0	0	0
32000	31	0	0	0	0	0	0	0	0	0
33000	30	0	0	0	0	0	0	0	0	0
34000	29	0	0	0	0	0	0	0	0	0
35000	28	0	0	0	0	0	0	0	0	0
36000	27	0	0	0	0	0	0	0	0	0
37000	26	0	0	0	0	0	0	0	0	0
38000	25	0	0	0	0	0	0	0	0	0
39000	24	0	0	0	0	0	0	0	0	0
40000	23	0	0	0	0	0	0	0	0	0
41000	22	0	0	0	0	0	0	0	0	0
42000	21	0	0	0	0	0	0	0	0	0
43000	20	0	0	0	0	0	0	0	0	0
44000	19	0	0	0	0	0	0	0	0	0
45000	18	0	0	0	0	0	0	0	0	0
46000	17	0	0	0	0	0	0	0	0	0
47000	16	0	0	0	0	0	0	0	0	0
48000	15	0	0	0	0	0	0	0	0	0
49000	14	0	0	0	0	0	0	0	0	0
50000	13	0	0	0	0	0	0	0	0	0

The Explication of the Table.

The Table consists of 4 Columns: the first of years, the 2<sup>d</sup> of the motion agreeing to the years standing right against the number of years and shewing the motion for that time in deg. min. and sec. the 3<sup>d</sup> & 4<sup>th</sup> Column are of the same nature with the first and second. Suppose you desire the motion in 400 years, look in the 1<sup>st</sup> Col. for 400 under the title of years and right against it in the 4<sup>th</sup> Col. you shall find 5 deg. 33' 23" and so much does the Equinox Retrocede in 400 years.

To find the exact places of the fixed stars for any time elapsed or to come.

As it were required to find the Place of Aldebaran Christi 600 Jan. 1. First subtract the year given from the year in which the place of the Star is given, as here from 1680 and there remains 1080 then collect the motions for these years as followeth.

SWAN 1680.

Place of Alderborn Jan. 1. 1680. II.

1000  $\begin{matrix} 15 & 43 & 24 \\ 80 & 1 & 6 & 40 \end{matrix}$  which subtr. from  $\begin{matrix} 5 & 17 & 20 \\ 15 & 0 & 5 \end{matrix}$

Prog. in 1000 years, place of the Star is  $\begin{matrix} 20 & 17 & 15 \end{matrix}$

Place of Alder. Anno 600 remains which was  $\begin{matrix} 20 & 17 & 15 \end{matrix}$

That is in the 20 deg. and 17 min. 15 sec. of  $\pi$ .

Again, suppose the place of the same Star be required 742. 1. Anno 1800. collect the motion as before, first subtracting the year in which the place of the Star is given, from the year in which it is required, as here 1680. from 1800 and there remains 120, the Progression in 100 years will be found 1 deg. 40 min. which add to the place given, and you will find it in 6 deg. 57' 20" of  $\pi$  in 1800.

The

.S. 1680.

The Sun according to Mr Galley enters Aries at 50 minutes past 3 afternoon, at which time the Figure of the Heavens will appear as followeth.

**A Figure of the Heavens at the Sun's entrance into Aries**



He enters Cancer June 10 at 6 afternoon.

He enters Libra September 12, 20 min. past 9 before.

He enters Capricorn December 10, at 9 at night.

An Account of the Figure of the Heavens.

The 12 Houses are nothing else but 12 spaces of the Heaven contained between 12 Circles, called the circles of position, because they distinguish the places of the Stars, or Planets, they meet in the Poles of the World, and divide the Equator into 12 Places or Houses; their Culps are the degrees of the Ecliptick at the beginning of each house, or those degr. which the circle that begins the house cuts in the Ecliptick which you may see in the Figure set with the Sign, the Planet with numeral figures shews what degree of the Sign the Planet is in, in such an hour. The 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, are the six Oriental Houses, because they are on the East side of the Meridian, the 1 is Horscope or the Angle Orient, called the Ascendant, the 10 is Culmen celi or Meridian: the opposite to these are the 4, 5, 6, 7, 8, 9, called the Occidental Houses: Astrologers ascribe to these spaces such and such qualities, of good or ill, and from thence form their predictions, a Planet being so and so posited, and according to the Figure of the Heavens at the Sun's entrance into the 4 Cardinal Signs they usually conjecture of the temperature of the ensuing season, but there being such difference of his exact entrance, as here into  $\gamma$  there is above 30 min. difference between M<sup>r</sup> Wing's Tables and M<sup>r</sup> Gildbury's calculations, in such time there will arise different degrees of the Ecliptick, and alter the posture of the Figure, so that I think there can be no certain truth deduced from thence, and therefore rather then to build upon uncertainties, and so to preoccupate your minds with uncertain conjunctencies, I leave it to the Judicious Astrologer to contemplate the Figure, knowing that he which is not affected with this kind of art will not heed me if I predict, neither would I impose upon him considering the various and mixt influences of the Heavenly bodies upon Terrene things, there being such a numberless number & all concerned in operating, so that 'tis hard to determine absolutely of their particular effects, it is better therefore to stay our minds on the wonderful providence of the Great Creatour, and say, *Deus omnia regit.*

Of the Eclipses this year

There will be but two Eclipses this year and both those of the nobler Luminary the Sun.

The 1 will be on the 20 day of March at 10 of the clock before noon. it happeneth in the 11 deg. of  $\gamma$  and very near the South Node of the Moon, and will therefore in it self be very great, and will appear total unto such as inhabit the South parts of America, the Holy Island, the Cape of S. Vincent, &c. and therefore both in its observation and effect the most to be regarded of them: it will be but in a small measure visible to us by reason of the Parallax of the Moon being very great at that time.

The second happeneth on *Septemb.* the 12 day at 8 a clock at night: it falls in the beginning of the Equinox; and will appear a very great Eclipse to such as navigate near the Port of S. Peter, the Island of Paraxo, &c. but to us it can be no way visible, both the Luminaries being beneath our Horizon before the deliquium begins, thus seeing these Eclipses so little concern us either in observation or effect, I shall not treat further of them.

The reason why the Moon will not be Eclipsed this year is because both those of the Sun are Central or very near, and the one happens before the Sun's Apogee, the other after, which is a rule in Astronomy that when there happens two central (or very near) Eclipses or new Moons (for then is the Sun always Eclipsed) within six months of one another, and the one before the Sun's Apogee the other after, there can be no Lunar Eclipse that year, and this rule takes place here, for the Sun's Apogee being in June, the one Eclipse in March is before it, the other in September after it, and both these within 6 months of one another.

The



The Causes of the variety of the Solar Eclipses  
with some Cœlestial observations

**F**irst the unequal apparent Latitude of the Moon: for the greater the Latitude of the Moon is, the lesser and shorter is the Eclipse of the Sun, but on the contrary the less the Latitude the greater and longer the Eclipse: and if the apparent Latitude of the Moon at the time of the visible conjunction be greater than the sum of the semidiameters of the Sun and Moon, the Sun shall not be Eclipsed, but if less then you may expect an Eclipse.

Secondly the unequal distance as well of the Sun as of the Moon from the Earth, for the changing of their distances maketh the Diameters of their bodies to appear greater or less, for the nearer they are to the Earth the greater will their Diameters appear, on the contrary the further off the less: and if an Eclipse happens when the Sun is at his greatest distance, and the Moon in her Perigee or nearest distance to the Earth, the Eclipse will be the greater, and the whole body of the Sun may seem to be darkened, the apparent Diameter of the Sun being less then that the Moons at that time.

Likewise the inequality of the Moons motion is a cause of the variety of the Solar Eclipse, and also the small quantity of the body of the Moon in respect of the Sun, and the small distance of the Moon from the Earth, by which means neither can the Eclipse appear of like bigness in all Places, nor at the same time, and the Sun may be totally Eclipsed to some, which by reason of the Moons Parallax may not at all appear to others.

*Sun is in ♈* all this year, and is Occidental from the beginning of the year to the 23 day of June, and then being in conjunction with the Sun becomes Oriental till the 29 of Decemb. and then being in opposition becomes Occidental. He may be seen rising in evening at the beginning of the year near *Sirius* or the Great Dog, but nearest the Bright foot of *♏* in May and the beginning of June



he will be some part of that time in conjunction with *Sisius*, and may be seen in the West after Sun-setting, approaching nearer and nearer to  $\odot$ .

*Jupiter* is in  $\odot$  from the beginning of the year till the 4 of *June*, and then enters  $\text{♊}$  in which he continues to the end of the year. He is Occidental till the 5 of *May*, and then becomes Oriental till the 22 of *Novemb.* and then is Occidental to the end of the year, he may be seen upon the Meridian in *Jan.* soon after Sun-set near the Girdle of *Coprius* at the beginning of *March* he will be in conjunction with the Bright Star in the Jaw of the Whale, and may be seen in the West soon after the Sun set.

*Mars* will be in conjunction with the 7 Stars on the 1 day of *June*, and may be seen rising about an hour before the Sun.

To find the Sun's Place in the Zodiac by these Verses.

*Inclyta Luna Justis Impenditur Hæcibus Horris.*  
Jan.  $\text{---}$  Feb.  $\text{---}$  Mar.  $\text{---}$  April  $\text{---}$  May  $\text{---}$  June  $\text{---}$

*Gaudia Gesta Gerens Felici Gaudet Honore.*  
July  $\text{---}$  Aug.  $\text{---}$  Sept.  $\text{---}$  Oct.  $\text{---}$  Nov.  $\text{---}$  Decem.  $\text{---}$

IN these Verses there are 12 words every one of which is for a month, the first word being for *Jan.* and so on in order for the rest as you may see with the Signs that the Sun enters in each month. Now to find the Sun's place mind with what Letter the word which belongs to the month you seek the Sun's place in begins, and count what Letter in the Alphabet it is, and add that number to the day of the month that you desire the Sun's place for, and that sum will tell you the degree he is in, if it be under 30, but if it exceed 30 subtract 30, and the residue is the deg. sought according to the *Gregorian*, or *Forreign* account, from which if you subtract 10 days in the common year, and eleven in the *Leap* year, you may have it according to the *Julian* or *English* account.

1680.

As for Example to find the Sun's place on the 29 of Sept. according to the Foreign account, the word for September is *Gerens*, & G beginning, it is the 7 letter, add then 7 to 22 the Summ is 29 subtract 30 and there remains 6 which shews ☉ is in the 6 deg. on that day which by subtracting 15 days will be the 14 day in our account, and this may serve for common use.

*A Rule to know how long the Moon shines and when she riseth, and her place in the Zodiack*

**M**ultiply the age of the Moon by 4, if it exceed not 15, & if it exceed take the complement of it to 30. Multiply that by 4, then divide the product by 5, and the quotient will shew the hours of her shining, and the remainder of the division the 5 parts of an hour: now to find her rising, add the time of her shining as long as she increaseth to the time of ☉ rising, and it will give the Moons rising: but after the full take the quantity of her shining from ☉ rising and you shall have her rising, as for example, Suppose the Moon be 9 days old, now 9 in 4 is 36, divide by 5, the quotient will be 7 the hours of ☉ shining, the 1 remaining is  $\frac{1}{5}$  of an hour or 12 mi. Now suppose ☉ rises at 2 a clock add 7 hours 12 min. the Summ will be 15 cast away 12 and there remains 3 which shews that ☉ riseth between 3 and 4 in the afternoon, and if it be after the full, subtract her shining from ☉ rising, as Suppose 7 out of 8 and there remains 1, which shews that ☉ riseth about 1 a clock in the morning.

To find her place in the Zodiack double her age, & divide that by 5, the quotient shews the Signs of her distance from ☉, the remainder of the division multiply by 6 and the product will be degrees, now add ☉ distance to ☉ place and you shall have ☉ place, the reason of the Rule is because the Moon runs through 2 Signs almost in 5 days time.

*A Rule to find what day of the week any day of any Year is, or hath been, or will be.*

**A**dd the present date of the year you seek in, and the Bissextiles passed, and the number of days of the year, beginning at the first of Jan. to the day of the month you desire

SPAN 1680.

to know what day of the week it is, & from the sum of these three subtract 1 and divide the residue by 7, the remainder of the division will shew you the day of the week as for example

I desire to know what day of the week the 18 of October is in this year 1680, the years passed are 1679. Bifexiles 419 (which you will find by dividing the year of our Lord by 4) from the 1 of Jan. to the 18 of Octob. are 291 days now the

$\frac{7}{8} \times 2 = 1\frac{7}{4}$  remainder 1  
which shows it is Monday

the reason of the rule is because every common year divided by 7 leaves 1 day, the Bissextile 2 : & therefore the sum of the years of *Christ* and the Bissextiles divided by 7 leaves the sum of both remainders ; we subtract 1 from the sum of the three because *Christ* was born on the Sabbath day, and the first day of the first year of *Christ*, beginning at 3:45, was Monday or the second week day : because it was the 2 day from his birth, but by the former account it is the 1, Tuesday, &c.

To find the Dominical Letter for any Year, I shall

**T**O the year of *Christ* proposed add 5 together with the Bissextiles passed, divide this sum by 7 & subtract the remainder of the division from 8, or if nothing remains take 7 out of 8, and the residue will shew the Dominical Letter, as suppose there remains 1 which must be A, 2 B 3 C 4 D 5 E 6 F 7 G. I desire to know the Dominical for this year 680. add 5 and the Bissextiles viz. 420 and their sum will be 2105 which divided by 7 there remains 5, which taken out of 8 remains 3, which shews that C is the Dominical Letter for this year: but note that this Letter in the Bissextile year holds onely after S. *Matthias* before which the next Letter following is to be taken, as D for this year which holds till the Sunday before S<sup>t</sup> *Matthias* and then C begins the next: so at the 3 Letter C is for the time after S<sup>t</sup> *Matthias* in a retrograde order, in like manner is to be done for other years.

Spain 1680.

*A Rule to find what Letter belongs to any day of the Year.*

**D**ivide the number of days reckoned from the first of Jan. to the day you seek for by 7, and the remainder of the division will shew you the Letter belonging to that day. as for example, I desire to know what Letter belongs to the 8 of Septemb. days from the 8 of Septemb. to the 8 of January that is beginning at the first Jan. and so reckoning to the 8 of September are 322, which divided by 7 leaves 4 which shews that the Letter F belongs to that day. In like manner for the rest.

*A Rule to find the 14 Moon upon which depends Easter.*

**S**ubtract the Epact if it be less than 26 out of 47, but if it be 26 or more then 26 subtract it from 46, the residue will shew the day on which the 14 Moon falls, being reckoned from the 1 of March: as for example, I desire to know when the 14 Moon happens this year 1680, the Epact is 9, which deducted out of 47, there remains 38, so that the 38 day from the 1 of March is the 14 Moon, which will be on the 7 of April, and the Lord's day following the 14 Moon is always Easter-day, and so by this Rule, and those foregoing, you may find Easter for any year, the finding of the Golden Number and Epact is commonly shew'd by all, and therefore I shall not proceed any further concerning these things.

*Of the distinction of the Times in the Kalender.*

**T**he time of the distinction of the Ages begins at Septuagesima and hold till Easter. For Septuagesima represents the beginning of the World and the first Age from Adam. Sexagesima the beginning of the second Age of Noah. Quinquagesima the beginning of the

SECRET

Small 68c.

the third Age from Abraham. Quadragesima the beginning of the fourth Age from Moses. The first Lord's day represents the beginning of the fifth Age from David, the next the sixth Age from Christ, and at Easter is represented the seventh Age, which contains no Glorification.

• The time of Expectation is represented by the 4 Advents which are the 4 Sundays which next and immediately precede the Nativity of Christ, the first of them is celebrated in memory of the entrance of the Messiah into Jerusalem, the 2 from His coming to judge the World at the last day, the 3 from His coming to the Ministry, the 4 for a preparation to the coming of Christ. 212 17 1 1812 0 0

The Ember weeks being of great antiquity were first ordained for quarterly seasons of devotion being 4 in number.

They are called Ember days from that ancient Custom of King Hair-shaving and Ashes in the time of Publick Worship, on which days in token of Piety and Humiliation they used to eat nothing until the even-tide, and then only a Cake baked under the Embers, which was called *panis subacterium*, thus have you a brief account of somethings in the Kalender, the rest I leave till another time.

0	2	2	2	2	0	1	0	2	1	1	0	2	2	0	2	0	2
0	7	1	2	1	0	0	0	2	1	1	0	0	2	2	0	0	0

The proportion of the pound Avordupois to the pound Troy is as 12 to 14.727272, or as 12 to 14 and 8/11. Therefore the pound Troy is greater than the pound Avordupois, and the ounce Troy is greater than the ounce Avordupois.

And the farmer took the paper and one ounce in 36 ounces  
(or) 7 ounces is penny weight by four hundred 8 ounces  
is 3 ounces; And the Country bakers penny white (by  
A white is) (by) 1000 penny weight by four  
I hear at Dublin the Bushel or bushel the Town-bakers

21 И 13

# A Table for the Assize of Bread.

Town before is Coppm mions.	Price of Wheat.	By Troy weight.			By Avoir du Poid.			Coppm mions.
		Shillings.	Penny.	Farthing.	Shillings.	Penny.	Farthing.	
1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48	48
49	49	49	49	49	49	49	49	49
50	50	50	50	50	50	50	50	50
51	51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54	54
55	55	55	55	55	55	55	55	55
56	56	56	56	56	56	56	56	56
57	57	57	57	57	57	57	57	57
58	58	58	58	58	58	58	58	58
59	59	59	59	59	59	59	59	59
60	60	60	60	60	60	60	60	60
61	61	61	61	61	61	61	61	61
62	62	62	62	62	62	62	62	62
63	63	63	63	63	63	63	63	63
64	64	64	64	64	64	64	64	64
65	65	65	65	65	65	65	65	65
66	66	66	66	66	66	66	66	66
67	67	67	67	67	67	67	67	67
68	68	68	68	68	68	68	68	68
69	69	69	69	69	69	69	69	69
70	70	70	70	70	70	70	70	70
71	71	71	71	71	71	71	71	71
72	72	72	72	72	72	72	72	72
73	73	73	73	73	73	73	73	73
74	74	74	74	74	74	74	74	74
75	75	75	75	75	75	75	75	75
76	76	76	76	76	76	76	76	76
77	77	77	77	77	77	77	77	77
78	78	78	78	78	78	78	78	78
79	79	79	79	79	79	79	79	79
80	80	80	80	80	80	80	80	80
81	81	81	81	81	81	81	81	81
82	82	82	82	82	82	82	82	82
83	83	83	83	83	83	83	83	83
84	84	84	84	84	84	84	84	84
85	85	85	85	85	85	85	85	85
86	86	86	86	86	86	86	86	86
87	87	87	87	87	87	87	87	87
88	88	88	88	88	88	88	88	88
89	89	89	89	89	89	89	89	89
90	90	90	90	90	90	90	90	90
91	91	91	91	91	91	91	91	91
92	92	92	92	92	92	92	92	92
93	93	93	93	93	93	93	93	93
94	94	94	94	94	94	94	94	94
95	95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100	100

The proportion of the pound *Avoir-du-pois* to the pound *Troy*, is as 60 to 73; so that 60 pounds *Avoir-du-pois* are equal to 73 pounds *Troy*. The proportion of the ounce *Troy* to the ounce *Avoir-du-pois* is as 73 to 86; so that 73 ounces *Troy* are equal to 86 ounces *Avoir-du-pois*. Therefore the pound *Avoir-du-pois* is greater then the pound *Troy*; and the ounce *Troy* is greater then the ounce *Avoir-du-pois*.  
Wheat at 5 Shillings the Bushel or Strike, the Town-baken penny white, is (by *Troy*) 7 ounces, 7 penny weight; by *Avoir-du-pois* 8 ounces: And the Countrey bakers penny white (by *Troy*) 7 ounces, 12 penny weight: by *Avoir-du-pois* 8 ounces and one quarter. If the baker want one ounce in 36 ounces of this affize, he shall suffer the Pillory without any fine or admonition, 11 Hen. 3.

FINIS.